

ACOUSTIC COOLING

CENTER

The Center for Acoustic Cooling Technologies has been established for the application of thermo acoustic devices to heat management and heat removal from microcircuits, computers, high speed electronics, and small scale applications.

*Industrial collaboration with a
local company
Venture Capital Investments from
SUTI*

ACCOMPLISHMENTS

This is the first year for the Center for Acoustic Cooling. It is structured on fundamental developments of miniature thermo-acoustic devices supported by the Office of Naval Research, the interfacing of devices to microcircuits and computers as supported by DARPA (HERETIC Program), and industrial collaboration with a local company, for the development and commercialization of Center technologies. This effort has attracted the interest of a venture capital investment company, SUTI, in California.

UNIVERSITY OF UTAH

Can you imagine.....

A miniature cooling device that replaces fans in airplane cockpit displays and personal computers using sound as the main energy source and measures from 4 cm to less than 1 cm?



TECHNOLOGY

The center's technology is based on two effects in thermo acoustics. The first is that heat can be converted into sound energy; and second, sound can pump heat. Both have been developed into devices with dimensions ranging from 4 cm to 0.8 cm with the possibility for further miniaturization and micro-circuit integration.

Contact Information

Director: Orest G. Symko
University of Utah
115 South 1400 East #201
Salt Lake City, Utah 84112
801-581-6132
orest@physics.utah.edu